IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method comprising:

calculating link margin for a wireless device using a power level of a signal received by the wireless device and a receiver sensitivity indication; and

adjusting ~~at least one of~~ transmit data rate ~~and transmit power level for~~ of the wireless device based on said calculated link margin.

2. (Previously Presented) The method of claim 1, wherein:

said wireless device is a wireless client device for use in a wireless network; and

said power level of said signal received by the wireless device includes a received power level (RPL) value.

3. (Previously Presented) The method of claim 1, wherein:

calculating includes determining a difference between said power level of said signal received by the wireless device and said receiver sensitivity indication.

4. (Currently Amended) The method of claim 1, wherein:

adjusting includes selecting a transmit data rate by determining which of a plurality of ranges said link margin falls within, wherein each range in said plurality of ranges corresponds to a different transmit data rate.

5. (Currently Amended) The method of claim 1, ~~wherein~~further comprising:

~~adjusting includes~~ entering a power reduction loop when said link margin exceeds a predetermined level.

6. (Original) The method of claim 1, further comprising:

determining receiver sensitivity, before calculating link margin, based on a data rate of a received signal.

7. (Original) The method of claim 6, wherein:

said received signal is a received beacon signal.

8. (Original) The method of claim 1, wherein:

adjusting includes selecting a maximum data rate and decreasing a transmit power level when said link margin exceeds a predetermined value.

9. (Currently Amended) A wireless device comprising:

a wireless transceiver;

a link margin determination unit to determine a link margin associated with the wireless transceiver using a ~~received~~ power level of a signal received by the wireless transceiver; and

a transmit data rate determination unit to select a transmit data rate for the wireless transceiver based on said link margin determined by said link margin determination unit.

10. (Currently Amended) The wireless device of claim 9, wherein:

said transmit data rate determination unit selects said transmit data rate by determining which of a plurality of link margin ranges said link margin falls within, wherein each range in said plurality of ranges corresponds to a different transmit data rate.

11. (Original) The wireless device of claim 10, wherein:

said transmit data rate determination unit selects a maximum data rate when said link margin exceeds a predetermined value.

12. (Original) The wireless device of claim 9, further comprising:

a transmit power determination unit to adjust a transmit power level of the wireless device based on link margin.

13. (Original) The wireless device of claim 12, wherein:

said transmit power determination unit enters a power reduction loop when said link margin exceeds a predetermined level.

14. (Previously Presented) The wireless device of claim 9, wherein:

said link margin determination unit determines said link margin by calculating a difference between said received power level of the wireless transceiver and a receiver sensitivity value.

15. (Previously Presented) The wireless device of claim 14, wherein:

said receiver sensitivity value is estimated based upon a data rate of a signal received by said wireless transceiver.

16. (Previously Presented) The wireless device of claim 14, wherein:

said wireless device is a wireless client device for use within a wireless local area network; and

said received power level of the wireless transceiver includes a received power level (RPL) value.

17. (Currently Amended) An article comprising a computer readable storage medium having instructions stored thereon that, when executed by a computing platform, result in:

calculating link margin for a wireless device using a power level of a signal received by the wireless device and a receiver sensitivity indication; and

adjusting ~~at least one of~~ transmit data rate ~~and transmit power level for~~of the wireless device based on said calculated link margin.

18. (Previously Presented) The article of claim 17, wherein:

calculating includes determining a difference between said power level of said signal received by the wireless device and said receiver sensitivity indication.

19. (Currently Amended) The article of claim 17, wherein:

adjusting includes selecting a transmit data rate by determining which of a plurality of ranges said link margin falls within, wherein each range in said plurality of ranges corresponds to a different transmit data rate.

20. (Original) The article of claim 17, wherein:

adjusting includes entering a power reduction loop when said link margin exceeds a predetermined level.

21. (Currently Amended) A wireless device comprising:

at least one dipole antenna;

a wireless transceiver coupled to said at least one dipole antenna;

a link margin determination unit to determine a link margin associated with the wireless transceiver using a ~~received~~ power level of a signal received by the wireless transceiver; and

a transmit data rate determination unit to select a transmit data rate for the wireless transceiver based on said link margin determined by said link margin determination unit.

22. (Currently Amended) The wireless device of claim 21, wherein:

said transmit data rate determination unit selects said transmit data rate by determining which of a plurality of link margin ranges said link margin falls within, wherein each range in said plurality of ranges corresponds to a different transmit data rate.

23. (Original) The wireless device of claim 21, further comprising:

a transmit power determination unit to adjust a transmit power level of the wireless device based on link margin.

24. (Original) The wireless device of claim 21, wherein:

said at least one dipole antenna includes multiple dipole antennas in an antenna diversity arrangement.

25.-30. (Cancelled)